

LUNENOK-BURMAKINA, V.A.; POTEYSKAYA, A.P.; BRODSKIY, A.I.

Mechanism of the anodic formation of ozone from sulfuric acid solutions. Dokl. AN SSSR 137 no.6:1402-1404 Ap '61. (MIRA 14:4)

1. Institut fizicheskoy khimii imeni L.V. Pisarzhevskogo AN USSR.
2. Chlen-korrespondent AN SSSR (for Brodskiy).
(Ozone)

LUNENOK-BURMAKINA, V.A.; POTESKAYA, A.P.

Tracer study of the mechanism of peroxymonosulfuric acid decomposition reactions. Dokl. AN SSSR 149 no.6:1343-1346 Ap '63. (MIRA 16:7)

1. Institut fizicheskoy khimii im. L.V.Pisarzhevskogo AN UkrSSR.
Predstavleno akademikom A.N.Frumkinym.
(Peroxymonosulfuric acid) (Tracers (Chemistry))

BRODSKIY, A.I.; LUNENOK-BURMAKINA, V.A.

Nature of surface platinum oxides formed during the anode discharge
of hydrogen peroxide. Dokl. AN SSSR 151 no.6:1358-1359 Ag '63.
(MIRA 16:10)

1. Institut fizicheskoy khimii im. L.V.Pisarzhevskogo AN UkrSSR.
2. Chlen-korrespondent AN SSSR (for Brodskiy).

LUNENOK-BURMAKINA, V.A.; GERASENKOVA, A.N.

Mechanism of oxidation of inorganic compounds of sulfur by
hydrogen peroxide. Zhur. neorg. khim. 9 no.2:270-275 F'64.
(MIRA 17:2)

1. Institut fizicheskoy khimii imeni L.V. Pisarzhevskogo
AN SSSR.

PRODSKIY, A. I. (Kiev); LUNENOK-BURMAKINA, V. A. (Kiev); FRANCHUK,
I. F. (Kiev)

Isotope research on the mechanism of anodic reaction in
the electrolysis of sulfates. Rev chimie 7 no. 1: 85-90
'62.

1. Institut fizicheskoy khimii im. L. V. Pisarzhevskogo
Academii nauk Ukrainskoy SSR.

LUNENOK-BURMAKINA, V.A.; POTENSKAYA, A.P.

Isotope method of studying the reaction of hydrogen peroxide
with calcium and barium peroxides. Ukr. khim. zhur. 28 no.1:
48-52 '62. (MIRA 16:8)

1. Institut fizicheskoy khimii im. L.V. Pisarzhevskogo AN
UkrSSR.

LUNENOK-BURMAKINA, V.A. [Lun'onok-Burmakina, V.A.]; KUSAKOVSKAYA, T.M.
[Kusakovs'ka, T.M.]

Isotope investigation of the mechanism of oxidation of
manganese and silver cations by ozone. Dop. AN URSR no.2:
226-228 '65. (MIRA 18:2)

1. Institut fizicheskoy khimii AN UkrSSR.

LUNENOK-BURIAKINA, V.A.; POTEMSKAYA, A.P.

Isotope investigation of the mechanism of persulfate decomposition in an acid medium. Ukr. Khim. zhur. 30 no.12:1262-1266 1984 (MIRA 1985)

1. Institut fizicheskoy khimii im. I.V. Pribludnyanskogo AN UkrSSR.

GRAGEROV, Isaak Petrovich, doktor khim. nauk, otv. red.;
REKASHEVA, Anna Fedorovna; LUNENOK-BURMAKINA, Valentina
Arsent'yevna; SHTUL'MAN, I.F., red.

Aleksandr Il'ich Brodskii. Kiev, Naukova dumka, 1965.
39 p. (MIRA 18:10)

LUNER, J.; VASKOVA, M.

Meteorotropic influences and glaucoma. Cesk. oftal. 20
no.6:469-472 N '64.

1. Oční lékařské fakulty v Olomouci, (prednosta prof. dr. V.
Vejdovsky, DrSc. Lidova hvězdárna v Olomouci (reditel RNDr.
J. Luner).

LINETS, M. R.

Relation between the present and the past in the development of the
top. research. (MIRA 19:10)

1. Naryzhnikovskiy, V. I. (ed. - prof. S. I. Naryzhnikov)
Belomorskoye morskoye uchebnoye zdaniye, Belomorskoye morskoye uchebnoye
zdaniye, Belomorskoye morskoye uchebnoye zdaniye.

LUNETSKAITE, B.

¹³
CIVIRAS, P., doc.; LUNETSKAITE, B., asist.

On the problem of the pathogenesis and therapy of chronic enterocolitis. Sveik. apsaug. 8 no.1:16-21 Ja'63.

1. Vilniaus Valst. V.Kapsuko v. universiteto Medicinos fakulteto infekcinių ligų katedra. Katedros vedejas - doc. P.Cibiras.

*

LUNETSKAS, A. M.

Distr: 4243

27
Mixed hydroxide catalysts. I. Two-component hydroxide catalysts for the decomposition of calcium hypochlorite. 1. A. Yu. Prokhorchik, P. K. Norbys, and A. M. Lunetskaya. *Zhur. Fiz. Khim.* 31, 1511-14 (1957). Mixed $\text{Ca}(\text{OH})_2$ - $\text{Cu}(\text{OH})_2$ and $\text{Ni}(\text{OH})_2$ - $\text{Fe}(\text{OH})_3$ catalysts used in the study of the effects of temp. and catalyst compn. on the decompn. of $\text{Ca}(\text{ClO})_2$ were prepd. by copptn. from 0.01M solns. of the chlorides of the metals with filtered 0.2M $\text{Ca}(\text{ClO})_2$ soln. and satd. $\text{Ca}(\text{OH})_2$ soln. The catalytic activity of the mixed catalysts with all proportions of the components was greater than the activity of the single catalysts, and this higher activity was related to the lowering of the activation energy of the $\text{Ca}(\text{ClO})_2$ decompn. in soln. The mechanism of the $\text{Ca}(\text{ClO})_2$ decompn. remained unchanged in the mixed catalysts, and their activity depended only on the stoichiometric proportion and the extent of mutual activation of the components. W. M. Strehler

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[Signature]

LUNETSKASS A. M.

Category: USSR / Physical Chemistry - Kinetics. Combustion.
Explosives. Topochemistry. Catalysis.

B-9

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 30060

Author : Prokopchik Yu. A., Norkus P. K., Lunetskass A. M.

Inst : Academy of Sciences Lithuanian SSR

Title : Dependence of the Catalytic Activity of Some Hydroxide Catalysts
on the Method of Their Preparation.

Orig Pub: Liet. TSR mokslu Akad. darbai, Tr. AN LitSSR, 1956, 5B, 57-66

Abstract: Study of the dependence of catalytic properties of hydroxides and their mixtures, which have been previously described (see preceding abstract), on the method of their precipitation. It was found that high activity is exhibited by the hydroxides I, II, III (for denotation see preceding abstract) precipitated with a solution of $\text{Cd}(\text{OH})_2$ in the presence of $\text{Ca}(\text{ClO})_2$, while the lowest activity is displayed by those precipitated with only a solution of $\text{Ca}(\text{OH})_2$, which the authors attribute to the blocking of a portion of the surface by stable OH^- ions. In the case of the hydroxides of Cu the opposite dependence

Card : 1/2

-25-

Category: USSR / Physical Chemistry - Kinetics. Combustion.
Explosives. Topochemistry. Catalysis.

B-9

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 30059

activity. The catalytic activity of freshly precipitated hydroxides decreases in the series $\text{Co} > \text{Ni} \gg \text{Cu} > \text{Fe}$, and the activity of specimens after aging decreases in the series $\text{Co} > \text{Fe} \gg \text{Cu} > \text{Ni}$. Of the investigated 2-component catalysts the most active and stable are I + IV, and of the 3-component ones, I + III + IV. In the opinion of the authors, a particularly high activity, and stability to aging, is characteristic of the 2-component systems which include hydroxides that exhibit sharply distinct activity in freshly prepared condition. When the composition of catalysts is made more complex, there is often observed a change in the order of the reaction, from first to fractional or zero order. On aging of the catalysts the order of the reaction changes in the opposite direction.

Card : 2/2

-24-

LUNETSKAS, A. M.

Hydrochemical characteristics of the Neman River in Kaunas
Hydroelectric Plant region. Gidrokhim. mat. 27:73-81 '57.

(MIRA 11:4)

1. Institut khimii i khimicheskoy tekhnologii AN Litovskoy SSR, Vil'nyus.
(Kaunas Hydroelectric Power Station)
(Neman River--Water--Analysis)

LUNETSKAS, H.M.

PROKOPCHIK, A.Yu.; NORKUS, P.K.; LUNETSKAS, A.M.

Mixed hydroxide catalysts. Part 1: Two-component hydroxide catalysts in the decomposition of calcium hypochlorite (with summary in English). Zhur.fiz.khim.31 no.7:1547-1554 J1 '57.
(MIRA 10:12)

1. AN Litovskoy SSR, Institut khimii i khimicheskoy tekhnologii, Vil'nyus.

(Catalyst)

(Calcium hypochlorite)

LUNETSKAS, A.M.
PROKOPCHIK, A.Yu.; HORKUS, P.K.; LUNETSKAS, A.M.

Mixed hydroxide catalysts. Part 2: Effect of admixtures on the catalytic activity of binary hydroxide catalysts for the decomposition of calcium hypochlorite [with summary in English]. Zhur.fiz.khim. 31 no.9:2093-2101 S '57. (MIRA 11:1)

1.Akademiya nauk Litovskoy SSR, Institut khimii i khimicheskoy tekhnologii, Vil'nyus.
(Hydroxides) (Catalysis) (Calcium Hypochlorite)

Doc. 1147
LUNETSKAS, A.M., ~~and Vil'nyus~~ Sci -- (diss) "On the
problem of the catalytic activity of the hydroxide of
cobalt and copper, *as well as some* ~~and also of certain~~ *mixture* of their ~~alloys~~ in
in the reaction of the dissolution of hypochloride of calcium."

Vil'nyus, 1958, 23 pp with graphs (Min of Higher Education

USSR. Vil'nyus State Univ im ^V B. Kapsukas) 100 copies

(KL, 29-58, 128)

LUNETSKAS, A.M. [Luneckas, A.]; PROKOPCHIK, A.Yu.

Catalytic decomposition of hypobromites. Liet ak darbai B no.3:
53-66 '60. (EEAI 10:3)

1. Institut khimii i khimicheskoy tekhnologii Akademii nauk
Litovskoy SSR.
(Hypobromites) (Catalysis)

1011. For use in the prepn. of silicon-bronze alloy of Si and Cu contg. about half of its wt. of Si and up to 7% of Fe, is obtained by fusing Fe-Si, adding to it a flux of Fe scale and quartz sand and further adding waste from non-ferrous metals preliminarily cast into ingots. The alloy is blown with gas after the reaction is over.

M

13

Processes A Properties Index

The Casting of Bronze Bushes in Metal Moulds. A. A. Lunay. (*Litvinov Into (Foundry Practice)*, 1934, (9), 17-30).—[In Russian.] The need for exact fulfilment of the proper conditions during the casting of bronze bushes in metal moulds is indicated.—N. A.

ABO-51A METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
Treatment of porous castings. A. A. Lynev... <i>Vestnik Metalloprod.</i> 18, No. 4, 50-51 (1968).--A method is described for filling pores in metal castings with liquid Bakelite at 130° or with liquid Pb at 300-420°, under pressure. S. L. Madorsky																			
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION																			
1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									

COMMON ELEMENTS										COMMON VARIABLE									
1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
CA										7									
Waste in the production of bronze. A. A. Luney, <i>Vysish Metalloprod.</i> 18, No. 10, 112-13 (1938); <i>Chem. Zvez.</i> 1939, 1, 3448.—In the grinding of bronze castings dust is produced having the following av. compn.: Cu 33.72-87.41, Sn 4.22-7.34, Pb 0.89-2.01, Zn 0-2.88, Fe from traces up to 0.9 and abrasive 0.44-55.44%. With the addn. of water glass as a binding agent, this material can be formed into briquets which, after melting, yield 94 wt.-% of valuable metal. They can be added to the charge in amts. of 10-30%. M. J. Moore																			
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																			
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Luney, P. A.

USSR .

/Cast copper-bearing antifriction steels, A. A. Luney.
U.S.S.R. Preprints 1953, No. 5, 16-18.—Four areas of the
 constitutional diagram for a Fe-Cu-Al system, contg. up to
 40% Cu and 48% Al consist of Fe grains surrounded by Cu,
 a field of mixed crystals of CuAl₃ and Fe₃Al, an area where
 Fe₃Al predominates, and an area of a solid soln. starting
 with about 28% Cu. Wear characteristics were detd. on
 steels with 2-30% Cu and 2-4% Al which combine a satis-
 factory corrosion resistance with good machinability and ex-
 cellent casting characteristics. An Amster tester was used.
 These steels had dry wear resistance of brasses and were in-
 ferior to both Sn and Al bronzes; their coeff. of dry friction
 was 0.34. Adding about 3% Pb, easily held in suspension
 by a 80% Cu-2% Al alloy, reduces its coeff. of dry friction
 to 0.14 lowered by lubrication to 0.011. This alloy has a
 tensile strength of 42 kg./sq. mm., elongation of 8% min.,
 and a hardness of 115 Brinell min. The alloys were tried
 successfully for journal boxes and bearings of railroad cars.
 Raising the Cu:Al ratio increases Pb soly. which reaches
 1.0% Pb when this ratio is 8. Heating causes the surface
 of these alloys to be covered with a pink Cu layer having an
 exceptional capacity for absorbing oil and alloying with Zn,
 Sn, and Bi. Alloyed with Sn, the film reduces the coeff. of
 dry friction to 0.28. The alloys provide the only known
 metal having mech. properties of steel which can be rendered
 uniformly absorbent by thermal treatment developing the
 Cu film.

MG

of

J. D. Gat

PEVNEV, N.I.; GOLOVSKIKH, B.A.; MOSKVIN, P.P., inzhener, retsentsent; LUNEV, A.A., inzhener, redaktor; POPOVA, S.M., tekhnicheskii redaktor; TIKHONOV, A.Ya., tekhnicheskii redaktor.

[Practices of founding aluminum alloys under pressure] Praktika lit'ia aluminievykh splavov pod davleniem. Moskva, Gos. nauchno-tekhnicheskoe izdatel'stvo mashinostroit. lit-ry, 1956. 111 p.
(Aluminum founding) (MLRA 9:6)

LUNEV, A. A.

LUNEV, A.A.

VLADISLAV, V. J.

REF ID: A68907

Page 2 of 2

10/10/2008

Специальная металлургия в пяти томах, т. 3, кн. 1 (Metals Engineering Handbook in Five Volumes, Vol. 3, Pt. 1) Moscow, Mashin, 1958.
360 p. 50,000 copies printed.

M. (this page): V.S. Vladimirov, Professor (Deceased); M. (inside book): V.I. Klyagin, Engineer; N.K. M.: T.P. Sokolova, Editorial Board; S.A. Akhmedov, Chairman and Chief M.: Doctor of Technical Sciences, Professor, V.S. Vladimirov, Professor; A.I. Malov, Candidate of Technical Sciences, S.F. Podgubnyy, A.L. Kostorya, G.I. Stalbin, and S.A. Chernavskiy Managing M. For literature literature: V.I. Klyagin, Engineer.

REVIEW: The book is a reference book for technicians and engineers working in the field of machinery design and in production.

REMARKS: The book covers the following: engineering specifications, treatment and use of cast iron, steel and alloys, heat treatment of steel and cast iron, specifications, treatment and use of nonferrous metals and nonmetallic materials. Dr. Thompson, V.P. Volodgin, S.V. Volodgin are mentioned as having contributed to this field.

David L. Allen
Lawrence

Copper and Copper-base Alloys (A.A. Jurew, Candidate of Technical Sciences)	352
Alum and Its Alloys (O.Ye. Kostin, Candidate of Technical Sciences)	366

Case 9/24

General information and time trademarks
Physical properties
Mechanical properties
Chemical properties
Applications in engineering
Zinc alloys

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LEBAY, H. H.

PHASE I BOOK EXPIRATION SOV/1199

Leningrad. Politehnicheskii Institut

Sovremennye dostizheniya litomogo proizvodstva: trudy nauchnoy nauchno-tekhnicheskoy konferentsii (Recent Achievements in Founding. Communications of the Scientific and Technical Conference of Schools of Higher Education) Moscow, Mashgiz, 1968. 336 p. Krata aliip inserted. 4,000 copies printed.

Resp. Ed. Yu. A. Mekhendzi, Doctor of Technical Sciences, Professor. Eds.: M. G. Girsheviich, Doctor of Technical Sciences, Professor, and E. P. Lebedev, Doctor of Technical Sciences, Professor. Ed. for Literature on Heavy Machine Building Department, Mashgiz: Ye. P. Naumov, Mashgiz; Ye. A. Dlugokanaya, and L. V. Shchegoleva.

PURPOSE: This book is intended for the technical personnel of foundries. It may be used by students of the field.

COVERAGE: This collection of articles discusses problems in founding processes. Individual articles treat the melting of metals and their alloys, mechanization and automation of casting processes, aspects of the manufacture of steel, cast iron, and nonferrous alloys. No personalities are mentioned. References accompany individual articles.

SOV/1199

Recent Achievements in Founding (Cont.)

44. Korotkov, V. G. Degassing of Aluminum Alloys by a Direct Current 314
45. Dubitskiy, G. M. Design of Gating Systems for Nonferrous Alloy Castings 321
46. Rutalov, L. V., Yu. A. Mekhendzi, and Yu. A. Plin. Titanium and Its Alloy Shaped Castings 326
47. Zuev, A. A. Utilization of Solid Carbonic Acid in Making Nonferrous Metal Castings 332

AVAILABLE: Library of Congress

VK/3sm/6c

VALETOV, V.V.; VESNIK, M.I.; GONCHAROV, I.S.; DMITROV, D.V.; LUNEV, A.A.;
MOKIN, M.I.; NESTEROV, S.N.; SMIRNOV, V.P.; ALEKSEYEV, S.A., re-
tsenzent; KARKAZOV, A.G., retsenzent; KONDRATOVICH, V.M., retsen-
zent; LEVIN, B.M., retsenzent; MALIKOV, A.N., retsenzent; SEGALE-
VICH, S.M., retsenzent; SHPAGIN, A.I., retsenzent; SHTERN, L.T.,
retsenzent; YAKOBI, A.A., retsenzent; TIKHANOV, A.Ya., tekhn. red.;
CHERNOVA, Z.I., tekhn. red.

[Establishing norms for the consumption of materials in machinery
manufacture; manual] Normirovanie raskhoda materialov v mashino-
stroenii; spravochnik. Pod red. V.V.Valetova. Moskva, Gos. nauchno-
tekhn. izd-vo mashinostroit. lit-ry. Vol.1. 1961. 583 p.
(MIRA 15:2)

(Machinery industry)

LUNEV, A. F.

PA 192T17

USSR/Chemistry - Corrosion

Jul/Aug 51

"Protection of Metal Construction From Corrosion in Soil With the Aid of Cathodic Protectors,"
A. F. Lunev, G. V. Akimov, Inst of Phys Chem, Acad Sci USSR

"Iz Ak Nauk SSSR, Otdel Khim Nauk" No 4, pp 361-369

Compared action of cylindrical cathodic protectors of Mg, Mg alloy MATs, Al alloy ATs5, and Zn in preventing corrosion of iron structures (pipes) in soil, found Mg and Mg alloy MATs most effective. When placed in bags filled with CaSO_4 , $\text{CaSO}_4 + \text{MgSO}_4$,

192T17

USSR/Chemistry - Corrosion (Contd)

Jul/Aug 51

(for Mg alloys) and $\text{Ca}(\text{OH})_2$, $\text{Ca}(\text{OH})_2 + \text{NaCl}$ (for Al alloys), protectors were effective and corroded less themselves. In exptl set-up, iron spirals were placed inside protectors to insure contact of measuring app with all parts of protectors in case of local corrosion of latter.

192T17

DUNAY, A. P., ROBIN, I. YA. Eng.

Corrosion and Anticorrosives

Electrochemical protection against corrosion. Vest. AN SSSR 22 no. 7, 1952.

Monthly List of Russian Accessions. Library of Congress. November 1952. UNCLASSIFIED.

A.F. Lumev

13(5) PLANE I BOOK EXPLOITATION 307/1882

Vsesoyuznoye soveshchaniye po korrozii i zashchite metallov.
Gos. Moscow, 1956

Teoriya i praktika protivokorozionnoy zashchity podzemnykh
sooruzheniy; teoryi sovetskaniya (teoriya i praktika)
Anti-corrosion Measures of Subterranean Installations; Trans-
actions of the 6th All-Union Conference on Corrosion and
Protection of Metals) Moscow, 1956. 273 p. 3000 copies printed.

Spetsialnyy Agenty: Andaniya nank SSSR. Institut fizicheskoy
khemii. Komissiya po bor'be s korrozivny metallov.

Editorial Board: I. M. Yerashov, Candidate of Technical Sciences;
A. P. Lumev, Candidate of Chemical Sciences; Yu. N. Kikharlovskiy,
Candidate of Chemical Sciences; I. V. Strizhevskiy, Candidate
of Technical Sciences; M. D. Tomashov, Professor, Doctor of
Chemical Sciences; and P. V. Shchigolev, Candidate of Chemical
Sciences.

Card 1/7

Sciences; Resp. Ed.: M. D. Tomashov, Professor, Doctor of
Chemical Sciences; Ed. of Publishing House: A. L. Bankovskiy;
Tech. Ed.: P. S. Khabina.

PURPOSE: The book is intended for chemists, engineers, and
metallurgists concerned with the problem of metal corrosion
in underground installations.

COVERAGE: The book contains the papers read at the All-Union
Conference of the Committee on the Control of Corrosion of
the Academy of Sciences, USSR, held in May, 1956. The
following scientific and technical problems discussed at
the conference received particular attention: 1) theory
of metal corrosion underground (M. D. Tomashov and S. I.
Kuznetsov); 2) theory, calculation, and practical application
of cathodic and anodic protection of underground installa-
tions (A. P. Lumev, I. M. Yerashov, V. G. Kotik, V. V. Krasnoyarskiy,
and A. Tsikun); 3) study of the anti-corrosive properties
and the improved technology in manufacturing and applying
protective coatings to subterranean metallic installations
(L. Ya. Tsikun, V. I. Zhukov, M. D. Dzhafarov, and V. S.
Artamonov); 4) prevention of stray current corrosion (I. V.
Strizhevskiy, J. K. Kozlovskiy, P. G. Doroshenko, and
Card 2/7

I. I. Gerdynskiy); 5) development of methods for determining
the corrosion activity of soils (Yu. N. Kikharlovskiy, A.
M. D. Tomashov, M. S. Tsvetkov, and V. V. Krasnoyarskiy); 6) some
examples of corrosion and protection of underground
installations (S. G. Yedinskii and V. S. Artamonov, V. A. Pristula,
and S. S. Popov). There are 161 references, 128 of which are
Soviet, 30 English, and 3 German.

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Trunk pipelines

Krasnoyarskiy, V. V., and A. P. Lumev. Anodic Pro-
tection of Underground Pipelines Against
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of Underground Metallic Structures Against Corrosion

Tsvetkov, L. Ya. Theoretical Principles and Cal-
culations for Anticorrosive Coatings of Underground
Metallic Pipelines

Dzhafarov, V. I. Methods of Improving the Insulation of
Pipelines

Dzhafarov, M. D. Coatings for the Protection of
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Artamonov, V. S. Protec-
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S/081/50/000/016/007/012
A006/A001

Translation from: Referativnyy zhurnal, Khimiya, 1960. No. 16, p. 353, # 66090

AUTHOR: Lunev, A.F.

TITLE: Determination of the Uniformity of a Coating by the Electrochemical Method

PERIODICAL: Tr. In-ta fiz. khimii AN SSSR, 1959, No. 7, pp. 141-144

TEXT: The electrochemical method is recommended to evaluate the uniformity of an insulating coating on metals. The method consists in plotting curves of cathode polarization on specimens coated with a protective film and placed in a special cell. The curves obtained are then compared with polarization curves plotted on specimens without protective coatings. The ratio of the polarization current of specimens with a protective coating to that of specimens without a film characterizes, at equal potentials, the total surface of bare areas per 1 cm² of the specimen surface. This ratio is correct for the curve sections corresponding to oxygen depolarization in the absence of concentration polarization.

Z. Solov'yeva

Translator's note: This is the full translation of the original Russian abstract.
Card 1/1

LUNEV, A.F.

18(7)(617) PHASE I BOOK EXPLOITATION SOV/2246
Zashchita podzemnykh metallicheskikh sooruzheniy ot korrozii i
spravochnik. (Protection of Underground Metal Structures From
Corrosion; Manual) Moscow, Izdatel'stvo Khimicheskoy Literatury,
1959. 783 p. Errata slip inserted. 6,000 copies printed.
Ed.: N. I. Ryabtsev; Ed. of Publishing House: V. G. Akatova; Tech.
Ed.: Ye. S. Petrovskaya.

PURPOSE: This collection of articles is intended as a manual on
corrosion protection of underground metal structures.

COVERAGE: The book is divided into four parts. The first part
gives information on the characteristics of underground metal
structures and sources of their corrosion. The second part deals
with the theory of soil corrosion currents. The third part deals
with the corrosion of metals by stray current. The fourth part
deals with the problems of combating leakage from corrosion and the
methods and devices for investigating corrosion and the current
measures for preventing corrosion. The fourth part
deals with the measures for preventing corrosion of underground metal
structures and gives the basic operating principles of equipment
used. No personalities are mentioned. References follow
Card 1/26

Protection of Underground Metal (Cont.)

SOV/2246

1. Parameters for the design of cathodic protection (V.V. Krasnoyarskiy) 564
2. Cathodic installations (K.K. Nikol'skiy, and L.D. Razumov) 574
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Card 23/26

TOMASHOV, N.D.; LUNEV, A.F.; MIKHAYLOVSKIY, Yu.N.; LEONOV, V.V.

Determination of protective properties of metal coatings. Trudy
Inst.fiz.khim. 8:235-248 '60. (MIRA 14:4)

(Protective coatings)

TOMASHOV, N.D.; LUNEV, A.F.; IGNATOVA, Z.I.

Studying the protective properties of coatings by the capacitance-resistance method. Trudy Inst.fiz.khim. 8:254-263 '60.

(Protective coatings--Testing)

(Electric testing)

(MIRA 14:4)

TOMASHOV, N.D.; LUNEV, A.F.; GEDGOVD, K.N.

Investigation of ion penetration and the ~~porosity~~ of protective coatings by means of tagged atoms. Trudy Inst.fiz.khim. 8:264-275 '60. (MIRA 14:4)

(Protective coatings---Testing) (Ions---Migration and velocity)
(Radioactive tracers)

KRASNOYARSKIY, V.V.; LUNEV, A.F.; TOMASHOV, N.D.

Field testing of protective coatings on underground pipelines.

Trudy Inst.fiz.khim. 8:281-290 '60.

(MIRA 14:4)

(Pipelines--Corrosion) (Protective coatings--Testing)

LUNEV A. F.

TOMASHOV, Nikon Danilovich. Prinimali uchastiye: TYUKINA, M.N.; PALEOLOG, Ye.N.; CHERNOVA, G.P.; MIKHAYLOVSKIY, Yu.N.; LUNEV, A.F.; TIMONOVA, M.A.; MODESTOVA, V.N.; MATVEYEVA, T.V.; BYALOBZHESKIY, A.V.; ZHUK, N.P.; SHREYDER, A.V.; TITOV, V.A.; VEDENEYEVA, M.A.; LOKOTILOV, A.A.; BERUKSHITS, G.K.; DERYAGINA, O.G.; FEDOTOVA, A.Z.; FOKIN, M.N.; MIROLYUBOV, Ye.N.; ISAYEV, N.I.; AL'TOVSKIY, R.M.; SHCHIGOLEV, P.V.. YEGOROV, N.G., red.izd-va; KUZ'MIN, I.F., tekhn.red.

[Theory of the corrosion and the protection of metals] Teoriia korrozii i zashchity metallov. Moskva, Izd-vo Akad.nauk SSSR, 1959. 591 p. (MIRA 13:1)

(Corrosion and anticorrosives)

LUNEV, A.N., Cand Tech Sci -- (diss) "Study of the process
of stopping a loom by the ~~throttle~~ method." Mos, 1957,
11 pp (Min of Higher Education USSR. Mos Textile Inst)
(KL, 23-58, 106)

- 68 -

BALYASOV, P.D., dotsent; EFROS, B.Ye., dotsent; LUNEV, A.N., kand. tekhn. nauk

About those who work and study. Tekst. prom. 24 no.8:1-4
Ag '64. (MIRA 17:10)

1. Prorektor Moskovskogo tekstil'nogo instituta (for Balyasov).
2. Dekan vechernego fakul'teta Moskovskogo tekstil'nogo instituta (for Efros).
3. Zamestitel' dekana po Pavlo-Posadskomu filialu Moskovskogo tekstil'nogo instituta (for Lunev).

LUNEV, A.N.

Design of shuttle protector mechanisms for AT-100-5M looms.
Izv. vys. ucheb. zav.; tekhn. tekst. prom. no.4:140-143 '65.
(MIRA 18:9)

1. Moskovskiy tekstil'nyy institut.

ZAREMBO, L.K., kand. fiz.-mat. nauk; KARPOV, A.K., inzh.; LEGOSTAYEV, P.Ya., kand. tekhn. nauk; BRODSKIY, Yu.N., kand. tekhn. nauk; KHRETOV, N.S., inzh.; KHODANOVICH, I.Ye., kand. tekhn. nauk; BRISKMAN, A.A., kand. tekhn. nauk; GORODETSKIY, V.I., inzh.; NIKITIN, A.A., inzh.; GILL', B.V., inzh.; KRAYZEL'MAN, S.M., inzh.; DZHAFAROV, M.D., inzh.; LUNEV, A.S., kand. tekhn. nauk; NIKITENKO, Ye.A., inzh.; YERSHOV, I.M., kand. tekhn. nauk; ZAYTSEV, Yu.A., inzh.; MAGAZANIK, Ya.M., inzh.; SHAROVATOV, L.P., inzh.; RABINOVICH, Z.Ya., inzh.; BIBISHEV, A.V., inzh.; ASTAKHOV, V.A., dots.; KOMYAGIN, A.F., kand. tekhn. nauk; ANDERS, V.R., inzh.; SERGOVANTSEV, V.T., kand. tekhn. nauk, dots.; UTKIN, V.V., inzh.; KUZNETSOV, P.L., inzh.; MAMAYEV, M.A., inzh.; SVYATITSKAYA, K.P., ved. red.; FEDOTOVA, I.G., tekhn. red.

[Handbook on the transportation of combustible gases] Spravochnik po transportu goriuchikh gazov. Moskva, Gostoptekhizdat, 1962. 887 p. (MIRA 15:4)
(Gas, Natural--Transportation)

VERMISHEV, Grigoriy Khristoforovich; BESAYEV, Khadzhimurat Bechmurzayevich;
LUNEV, A.V., red.; DATRIYEVA, Ye.U., tekhn.red.

[Building materials industry in North Ossetia] Promyshlennost'
stroitel'nykh materialov Severnoi Osetii. Ordzhonikidze, Severo-
Osetinskoe knizhnoe izd-vo, 1960. 282 p. (MIRA 13:10)
(Ossetia--Building materials industry)

LUNEV, A.V.; VERMISHEV, G.Kh.

Preliminary treatment of Sadon region complex ores in a fluidized bed.
TSvet. met. 34 no. 4:66-67 Ap '61. (MIRA 14:4)
(Sadon region--Nonferrous metals) (Fluidization)

LUNEV, Boris Petrovich; KUROVA, A.V., red.

[Descriptive geometry; mutual intersection of polyhedra and surfaces. Methodological textbook for students of the first course majoring in any subject] Nachertatel'naia geometriia; vzaimnoe peresechenie mnogogrannikov i poverkhnostei. Uchebno-metodicheskoe posobie dlia studentov I kursa vsekh spetsial'nostei. Moskva, Vses. zaachnyi in-t inzhenerov zhelдор. transporta, 1963. 36 p. (MIRA 18:3)

LUNEV, B.S.

Brief report on the scientific conference of geologists of the Perm State University. Izv. vys. ucheb. zav.; geol. i razv. 1 no.4:141-142
Ap '58. (MIRA 11:12)

1. Permskiy gosudarstvennyy universitet, Kafedra poiskov i razvedki
mestorozhdeniy poleznykh iskopayemykh.
(Geology)

LUNEV, B.S.; KROPACHEV, A.M.

Lean soils and clays from high terraces and high plains of the
Perm region. Nauch. dokl. vys. shkoly; geol.-geog. nauki no.3:195-202
'58. (MIRA 12:1)

1. Permskiy universitet, geologicheskii fakul'tet, kafedra peiskov
i razvedok mestorozhdeniy poleznykh iskopayemykh i kafedra minera-
logii i petrografii.

(Perm region--Soils)
(Clay)

LUNEV, B.S.

Sand forms of the relief of Kama terraces. Nauch.dokl.vys.shkoly;
geol.-geog.nauki no.1:136-139 '59. (MIRA 12:6)

1. Permskiy universitet, geologicheskiy fakul'tet, kafedra poiskov
i razvedok mestorozhdeniy poleznykh iskopayemykh.
(Kama Valley--Sand)

LUNEV, B.S.; KROPACHEV, A.M.

Characteristics of clays in low terraces in the Kama Valley within
the Perm industrial region. Izv. vys. ucheb. zav.; geol. i razv.
2 no.7:43-49 J1 '59 (MIRA 13:3)

1. Permskiy gosudarstvennyy universitet.
(Perm region--Clay)

LUNEV, B.S.

Glaciers as transporters of boulders. Izv.vys.ucheb.zav.; geol.
1 razv. 2 no.9:142-144 S '59. (MIRA 13:4)

1. Permskiy gosudarstvennyy universitet.
(Glaciers) (Boulders)

SOV/11-59-7-10/17

3(5)

AUTHOR: Lunev, B.S.

TITLE: Indications of the More Recent Tectonic Movements in the Structure of Terraces of the Middle Kama Area

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geologicheskaya, 1959, Nr 7, pp 99-103 (USSR)

ABSTRACT: The manifestations of tectonic movements in the Quaternary period in the river Kama area was studied by V.A. Aprodov, D.V. Borisovich, S.G. Kashtanov, L. Rozanov, and V.M. Sementovskiy. In 1956, G.A. Maksimovich reported at the Permian section of the Vsesoyuznoye geograficheskoye obshchestvo SSSR (the All-Union Geographical Society of the USSR) on the correlation between the relief and the tectonics of the Perm' Oblast. L.A. Ragozin (reference 9) stated that any type of Quaternary blanket deposits is always associated with a definite tectonic structure of the foundation. Even a simple analysis of the magnitude of Quaternary deposits can

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SOV/11-59-7-10/17

Indications of the More Recent Tectonic Movements in the Structure of Terraces of the Middle Kama Area

show their connection with the more ancient structures. The author applied this theory to the study of terraces of the Middle Kama and reached the following conclusions: 1) the thickness of Quaternary alluvions decreases in the regions of the development of positive structures and the granulometry of the gravel-sandy deposits depends on the contemporary tectonic movements; 2) the elevation of the basic rock foundation of a terrace is directed towards the domed part of the positive structures; 3) the width of the Kama river valley decreases when the river intersects an anticline and increases when a syncline or a monocline is intersected; 4) in certain cases, a sharp bending of the river valley is observed when a positive structure is intersected. The author warns that the development of neotectonic movements is complicated by many

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SOV/11-59-7-10/17

Indications of the More Recent Tectonic Movements in the Structure
of Terraces of the Middle Kama Area

other factors, such as the lithology of the basic rock,
the river bends, the intersection of rocks by the ri-
ver along or across their course, the volume of the
discharge of the river and of the flood waters, etc.
There are 15 Soviet references.

ASSOCIATION: Permskiy Universitet im. A.M. Gor'kogo (The Perm'
University imeni A.M.Gor'kiy)

SUBMITTED: December 30, 1957

Card 3/3

LUNEV, B. S., CAND GEO-MINER SCI, STRUCTURE AND COMPO-
SITION OF THE QUATERNARY ALLUVIUM OF THE CENTRAL KAMA AREA.
KAZAN', 1960. (MIN OF HIGHER AND SEC SPEC ED RSFSR. KA-
ZAN' ORDER OF LABOR RED BANNER STATE UNIV IM V. I. UL'YA-
NOV-LENIN). (KL, 2-61, 202).

-52-

LUNEV, B.S.

Results of using a new method of representing the granulometric composition of sand and gravel. Biul. Kom. chetv. per. no.24:92-95 '60. (MIRA 16:7)

(Sand) (Gravel)
(Particle size determination)

LUNEV, B.S.

Special features of Kama River alluvium near Perm region.
Izv.Vses.geog.ob-va 92 no.5:461-463 S-O '60. (MIRA 13:9)
(Kama River--Alluvium)

LUNEV, B.S.

Chemical geography of Quaternary sediments in Perm Province.
Khim.geog. no.1:49-57 '61.

(Perm Province--Geochemistry)

(MIRA 16:3)

LUNEV, B.S.

Differentiation of alluvial sands of the U.S.S.R. by their
chemical composition. Lit. i pol. iskop. no.1:127-133 Ja-F
'65. (MIRA 18:4)

1. Permskiy gosudarstvennyy universitet.

LUNEV, D. K.

"Clinical Data on Lymphocytic Choriomeningitis." Sub 3 Oct 51, Acad
Med Sci USSR.

Dissertations presented for science and engineering degrees in Moscow
during 1951.

SO: Sum. No. 480, 9 May 55.

IVANOVA, V.V.; LUNEV, D.K.; BUKHSHTAB, Ye.A.

Certain problems of the clinical aspect of acute poliomyelitis. Zhur.
nerv.i psikh. 53 no.6:441-445 Je '53. (MLBA 6:6)

1. Institut nevrologii Akademii meditsinskikh nauk SSSR. (Poliomyelitis)

LUNEV, D.K., kandidat meditsinskikh nauk (Moskva)

Relation of science to practice in activities of the Institute
of Neurology of the Academy of Medicine of the U.S.S.R. Vest.
A'IN SSSR no.3:57-60 '55. (MLRA 8:11)

(NEUROLOGY,

in Russia, relation of research to practical application)

LUNEV, D.K.

POPOVA, L.M.; LUNEV, D.K.

Isolated facial nerve paralysis in poliomyelitis in children. Zhur.
nevr. i psikh. 55 no.2:123-129 F '55. (MLRA 8:4)

1. Klinicheskoye otdeleniye neyroinfektsiy (zav. prof. L.G.Chlenov)
Instituta nevrologii (dir. prof. N.V.Konovlaov) AMN SSSR.

(PARALYSIS,

facial, in polio. in child.)

(NERVES, FACIAL, paralysis,

in polio. in child.)

(POLIOMYELITIS, complications,
facial paralysis)

LUNEV, D.K.

"Psychiatrie, Neurologie and Medizinische Psychologie", nos.
1-12, 1954 (Periodical of psychiatry, neurology and medical
psychology of the German Democratic Republic, editor A. Matte)
Reviewed by D.K. Lunev. Zhur. nevr. i psikh. 56 no.3:272-276
'56 (MLRA 9:7)

(GERMANY--NEUROLOGY--PERIODICALS)

CHUMAKOV, M.P.; TSUKER, M.B., professor; LUMEV, D.K., kandidat meditsinskikh nauk

Results of a scientific session on the problems of epidemic poliomyelitis. Vest. AMN SSSR 11 no.2:85-88 '56. (MLRA 9:8)

1. Chlen-korrespondent AMN SSSR (for Chumakov)
(POLIOMYELITIS)

LUNEV, D.K., kand.med.nauk

Study of some aspects of the neuroses problem at the Institute
of Neurology of the Academy of Medicine of the U.S.S.R. Vest.
AMN SSSR 11 no.4:80-83 '56. (MIRA 12:10)
(NEUROSES)

LUNEV, D.K., nauchnyy sotrudnik

Present state of the principal divisions of neurology and the
prospects for their development in the coming years. Med. sestra
20 no. 8:3-7 Ag '61. (MIRA 14:10)

1. Iz Instituta nevrologii AMN SSSR, Moskva.
(NEUROLOGY)

LUNEV, D.K.

Clinical aspects and diagnosis of rupture of an aneurysm of the system of anterior cerebral arteries. Zhur. nevr. i psikh 61 no.8:1176-1181 '61. (MIRA 15:3)

1. Institut nevrologii (dir. - prof. N.V. Kononov) AMN SSSR, Moskva.

(INTRACRANIAL ANEURYSMS)

LUNEV, D. K.

Clinical aspects and diagnosis of hemorrhages into the brain with
the penetration of blood into the ventricles. Nauch. trudy Inst.
nevr. AMN SSSR no.1:85-102 '60. (MIRA 15:7)

1. Institut nevrologii AMN SSSR.

(BRAIN--HEMORRHAGE)

LUNEV, D.K.; NIKOLAYEVA, I.F.

Clinical diagnosis of cerebellar hemorrhages and their surgical treatment. Zhur.nevr.i psikh. 62 no.8:1167-1171 Ag '62.

(MIRA 15:12)

1. Institut nevrologii (dir. - prof. N.V.Konovalov) AMN SSSR, Moskva.

(BRAIN—HEMORRHAGE)

KARTASHEVA, V. V.; LUNEV, D. K.

Differential diagnostic role of the peripheral blood in acute
insult. Nauch. trudy Inst. nevr. AMN SSSR no.1:144-152 '60.
(MIRA 15:7)

1. Institut nevrologii AMN SSSR.

(DIAGNOSIS, DIFFERENTIAL)
(CEREBROVASCULAR DISEASE)

LUNEV, D.K.

Some clinical and electromyographic correlations in disorder of
the muscle tone in cerebral insultus. Zhur.nevr.i psikh. 61
no.10:1444-1452 '61. (MIRA 15:11)

1. Institut nevrologii (dir. - prof. N.V.Kononov) AMN SSSR,
Moskva.

(BRAIN—HEMORRHAGE) (MUSCLE) (ELECTROMYOGRAPHY)

LUNEV, D.K.; NADZHAROV, R.A.

Opinions on the work of the "Zhurnal nevropatologii i psikhatrii
imeni S.S.Korsakova" for 1961. Zhur.nerv.i psikh. 62 no.6:945-
947 '62. (MIRA 15:11)

(PSYCHIATRY--PERIODICALS)

LUREV, D.K.; NADZHAROV, R.A.

(Comments on the work of "Zhurnal nevropatologii i psikiatrii
imeni S.S. Korsakova" for 1962 and its work plan for 1963.
Zhur. nevr. i psikh. 63 no.8:1278 '63.

(MIRA 17:10)

LUNEV, D.K.; MAKSUDOV, G.A.; NIKOLAYEVA, I.F.

Memory disturbances in cerebrovascular disorders of the vertebro-basilar system. Zhur. nevr. i psikh. vol. 64 no.5:641-646 '64.

(MIRA 17:7)

1. Institut nevrologii (direktor - prof.N.V.Kononov) AMN SSSR, Moskva.

LUNEV

F. A.

Fedor Andriyevich

LUNEV, F.A.

VLADISLAV, V.S.

25(1)

4,7,5

PLANS 1 BOOK REPLICATIONS 807/1359

Speztsialnaya i spetsialnaya, t. 3, kn. 1 (Metals Engineering Methods in Five Volumes, Vol. 3, No. 1) Moscow, Mashin, 1958. 360 p. 50,000 copies printed.

M. (title page): V.S. Vladislav, Professor (Deceased); M. (inside book): V.I. Krylov, Engineer; Tech. Ed.: T.P. Bobolova, Editorial Board; V.S. Andriyevich (Chairman and Chief Ed.), Doctor of Technical Sciences, Professor; V.S. Vladislav, Professor (Deceased); A.M. Andriyevich, Technical Sciences, S.S. Podgorniy, A.M. Andriyevich, G.S. Bolshak, and S.A. Chernavskiy; Managing Ed. for Reference Literature: V.I. Krylov, Engineer.

REMARKS: The book is a reference book for technicians and engineers working in the field of military design and in production.

CONTENTS: The book covers the following: engineering specifications, treatment of steel, steel and alloys, heat treatment of steel and cast iron, specifications, treatment and use of nonferrous metals and nonmetallic materials. I.S. Chernavskiy, V.P. Volgin, S.V. Grevling are mentioned as being concerned in this field.

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476 476 476 476 476

Minerals (F.A. Lunyev, Candidate of Technical Sciences)
Minerals of the Fifth group (steel plus nonferrous metals)
Minerals made by eluding
Cast minerals
Thermometric minerals
Methods of making thermometric minerals

Card 13/13

Recessed

KHADZHI, Aleksey Georgiyevich, inzh.; LUNEV, G.A., inzh., red.

[Washing machines with a recirculated flow of the cleaning solution] Ustanovka dlia stirki bel'ia v protoke moiushchei zhidkosti. Moskva, Stroiizdat, 1964. 59 p.
(MIRA 18:1)

LUNEV, G.I., inzh.

Pliable support made of monolithic concrete. Shakht. stroi.
6 no.10:28-30 0 '62. (MIRA 15:9)
(Mine timbering) (Concrete construction)

BONDARENKO, P.S., inzh.; LUNEV, G.I., inzh.; BORSHUKOV, Ye.M., inzh.;
YANOVSKIY, V.P., inzh.

Achievement of low stable speeds of a remotely controlled
car pusher. Prom. energ. 17 no.11:17-22 N '62. (MIRA 15:12)
(Electric railway motors)

LUNEV, G.K., kand.filosofskikh nauk

Unity of religion and philosophical idealism and their opposition
to science. Report No.1. Sbor. trud. Kursk. gos. med. inst. no.13:
5-14 '58. (MERA 14:3)

1. Iz kafedry marksizma-leninizma (zav.-kand.filosofskikh nauk G.K.
Lunev) Kurskogo gosudarstvennogo meditsinskogo instituta.
(IDEALISM) (RELIGION) (SCIENCE)

LUNEV, G.K., dotsent

V.I. Lenin on the union of philosophical idealism and religion.
Sbor. trud. Kursk. gos. med. inst. no.16:3-21 '62.

(MIRA 17:9)

1. Iz kafedry marksizma-leninizma (zav. - dotsent G.K. Lunev) Kurskogo
gosudarstvennogo meditsinskogo instituta.

LUNEV, I., inzh.

New method of reconditioning the blocks of 3D6 engines. Rech.
transp. 19 no.10:41 O '60. (MIRA 13:11)
(Marine engines—Maintenance and repair)

LUREV, I.

repair of tanks in a tank farm. Neftianik 5 no.11:21 H '60.

(MIRA 13:11)

(Tanks--Repairing)

LUNEV, I., inzh.

Effect of the design of glued joints in metals on the strength 41-42
of bonding. Rech. transp. 19 no.12:41-42 D '60. (MIRA 13:12)
(Shipfitting)

LUNEV, I., inzh.

Effect of various metals on the strength of glued joints. Rech.
transp. 20 no. 2:49 F '61. (MIRA 14:2)
(Metals) (Adhesives)

LUNEV, I.M.

Pores in the adhesive layer and methods for their elimination.
Plast.massy no.5:68-69 '61. (MIRA 14:4)
(Adhesives)

15.1124

1407

28991

S/191/61/000/011/008/008

B110/B147

AUTHOR:

Lunev, I. M.

TITLE:

Investigation of the effect of epoxy glue components on the strength of glued joints

PERIODICAL: Plasticheskiye massy, no. 11, 1961, 51-53

TEXT: The author determined the optimum content of hardeners, plasticizers, and fillers in epoxy glues. Resins with various amounts of fillers and plasticizers were tested for bonding strength, and the optimum admixture was determined. Joints of steel samples were glued by hot hardening. Tensile tests were made on a YM-5 (UM-5) tensile-test machine with an

accuracy $\pm 0.5 \text{ kg/cm}^2$, rate of loading 2 mm/min. The following was established: (1) Glues on the basis of ЭП-6 (ED-6) epoxy resin with $< 10\%$ polyethylene polyamine (I) break in the glue, with $\geq 10\%$ I on the contact face glue-metal. (2) Glues on the basis of ЭД-5 (ED-5) with $< 15\%$ I break in the glue, with $\geq 15\%$ I on the contact face glue-metal. (3) Optimum content of I in ED-6 is 5-6.5 % by weight, under load at 100°C : X

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28991

S/191/61/000/011/008/008

B110/B147

Investigation of the effect of...

7 % by weight; of I in ED-5, 7.5-8 % by weight. (4) Bonding strength on steel is higher than that on cast-iron samples. Optimum plasticizer composition (% by weight): Phthalates: 5-15; polyesters: 5-10; phosphates: 5-10; thiokols: 5-30; furfural derivatives: 20-40. The presence of plasticizers widens the range of optimum content of I in glues. Results with hexamethylene diamine (II) as hardener: (1) Optimum content of (II) in glue without plasticizer is 8 % by weight. (2) Slight deviation from the optimum value lowers the bonding strength considerably. Furfural-derivative plasticizers lower the strength, but widen the range of optimum content of II. Tests of glue with ZnO filler (100 % resin + 5.5 % by weight of I) produced the following strengths: at 28°C = 740-850 kg/cm²; at 100°C = 595-615 kg/cm². Use of ZnO or TiO₂ fillers > 150 % by weight is difficult owing to high viscosity increase. When testing the effect of plasticizers on the strength of glued joints at 100°C, it was found that TiO and ZnO increased the strength at high temperatures (100°C). Based on the author's experiments, new glue compositions were developed (tensile strength at 20°C ≤ 900 kg/cm²; at 100°C ≤ 615 kg/cm²). There are 11 figures and 1 table.

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31434

S/122/61/000/012/002/008
D221/D303

15.1124

1407

AUTHOR: Lunev, I.M., Engineer

TITLE: The strength of bond related to the composition of
the glue

PERIODICAL: Vestnik mashinostroyeniya, no. 12, 61, 33 - 37

TEXT: The Soviet industry uses the following hardening agents for epoxy glues: Polyamino-polyethylene (PEPA), hexamethylenediamine (GMDA), maleic anhydride (MA), phthalic anhydride (FA), and dicyanodiamide (DIDA). In addition they may contain some plasticizers, fillers and solvents. The first ensure the plasticity, lower the brittleness, and in some cases also increase the strength of glue by decreasing stresses. The fillers change the properties of the glue, its colour, heat indices, etc. and strengthen the bond. Both organic and inorganic substances are employed as fillers. NIIPlast-mass recommends 6.5 weight parts of PEPA for 34-6 (ED-6) and ED-5 resins; TsNII Morskogo flota (TsNII of the Maritime Fleet) prescribes 1 - 12 parts of PEPA for ED-5 and 7 - 8 parts for ED-6,

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S/122/61/000/012/002/008

D221/D303

The strength of bond related to ...

whereas TsNII Rechnogo flota (TsNII of the River Fleet) indicates 7 - 10 parts of PEPA for ED-6. Experiments were carried out to determine the optimum content of hardening agent, plasticizer and filler in epoxy glues. Breaking of glued specimens by tension was carried out in a YM-5 (UM-5) machine. The samples were held during 2 hours for temperature equalization. The results indicate that the strength of bond of steel specimens exceeds the adherence of cast iron parts. In addition to other characteristics it showed an increase of brittleness for high contents of PEPA. The investigations on plasticizers revealed the most suitable combinations for maximum strength of bond. Furthermore, the optimum content of PEPA hardener in glues containing different plasticizers demonstrated the need for a higher proportion of PEPA when plasticizers ПДФ (PDF), ППЭ (PPE) and ПТКФ (PTKF) are used. Each plasticizer requires a different amount of PEPA, and the introduction of the former widens the limits of optimum content of the PEPA hardener. The glues working at 100°C and containing a PPE plasticizer have two maximum limits of ultimate strength. This indicates the need for definite proportions of the plasticizer and hardening agent to ob-

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31434

S/122/61/000/012/002/008
D221/D303

The strength of bond related to ...

tain bonds of high strength. A graph is also given of data concerning the GMDA hardener which reveals that even a small deviation from the optimum content results in lower bond strength. The introduction of a Π MPA (PMFA) plasticizer reduces the strength of joint, but widens the range of GMDA optimum content. Curves of MA and FA hardening agents are also shown. The tests on breaking the joints of glues containing oxides of titanium and zinc as fillers demonstrate their higher strength. The fillers have no effect on hardening agents. In the course of examinations, new compositions of glues which produce stronger bonds than those known at present, were obtained. There are 11 figures and 1 table.

X

Card 3/3

LUNEV, I.M.

Pores in glue layers and ways to correct them. Lit. proizv.
no.4:47 Ap '62. (MIRA 15:4)
(Epoxy resins) (Gases in metals)

S/117/62/000/008/003/005
I007/I207

AUTHOR: Lunev, I.M.

TITLE: *Joining of pipes with adhesive*

PERIODICAL: Mashinostroitel', no. 8, 1962, 19

TEXT: Results are reported on experiments carried out by the Rybinsk section of the PTNIN in order to replace the soldering and the welding of pipes during assembling or repair work, by adhesive glueing. A new type of glue and of glueing technology was devised and experimentally checked. The glue contains synthetic resins, plasticizing agents and fillers; no detailed composition is given. The new glue was checked in the joining of brass tubing for the fuel system of tractors and it exhibited good mechanical strength and a long service life. There are 2 figures. ✓

Card 1/1

LUNEV, I. M.

Use of adhesives for ship repairs. Mor.flot 22 no.4:29-31 Ap
'62. (MIRA 15:4)

1. Zaveduyushchiy laboratoriyey plastmass Rybinskogo otdeleniya
proyektno-tekhnologicheskogo i nauchno-issledovatel'skogo instituta.
(Ships—Maintenance and repair) (Adhesives)

S/122/62/000/012/003/007
D262/D308

AUTHOR: Lunev, I.M., Engineer
TITLE: Connecting pipes with epoxide glue
PERIODICAL: Vestnik mashinostroyeniya, no. 12,
1962, 32 - 33

TEXT: Glues consisting of epoxide resins with hardners, fillers, and plasticizing agents in various proportions, were prepared in such a way as to eliminate air bubbles. Connections were made a) between copper tubes, obtained by applying a layer of glue to the outside of the tube ends, and to the inside surface of the flanged socket, and b) between steel tubes connected by means of alternative external layers of glue and glass fiber to form a strap around the joint; both were subjected to pressure tests up to 240 kg/cm^2 , and vibration tests. It is stated that epoxide glues have had successful practical application in the repair of tubes in

Card 1/2

Connecting pipes ...

S/122/62/000/012/003/007
D262/D308

water cooling system for heat engines. Epoxide glues are recommended for connection and repair of tubes in systems working at temperatures up to 100°C. There are 3 figures and 1 table.

Card 2/2

LUNEV, I.M.

Glued pipe joints. Mashinostroitel' no.8:19 Ag '62.
(MIRA 15:8)
(Pipe fitting)

LUNEV, I. M., inzh.

Connecting pipes with epoxy adhesives. Vest. mashinostr. 42
no.12:32-33 D '62. (MIRA 16:1)

(Epoxy resins) (Pipe joints)